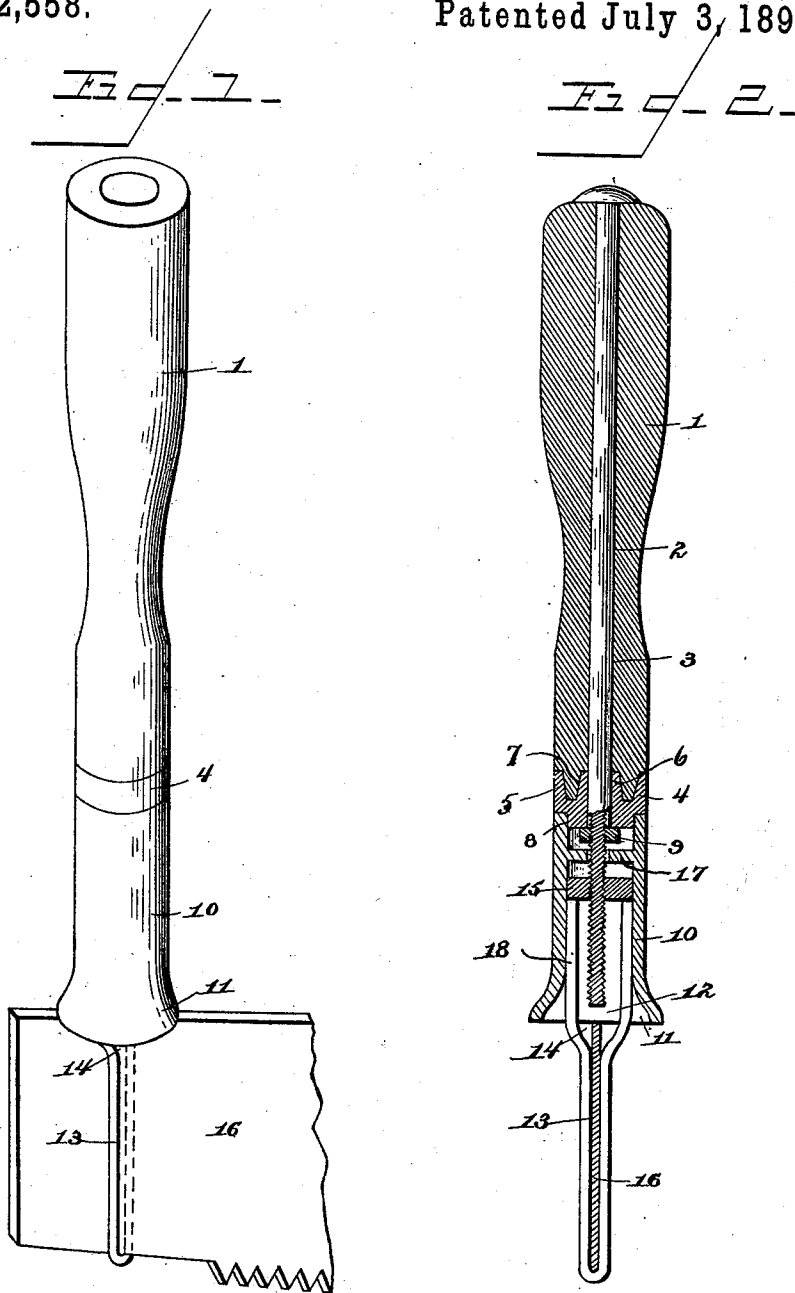


(No Model.)

E. J. FULGHUM.
SAW HANDLE.

No. 522,558.

Patented July 3, 1894.



Inventor,
Elisha J. Fulghum.

By his Attorneys,

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Witnesses,

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UNITED STATES PATENT OFFICE.

ELISHA J. FULGHUM, OF TRAVERSE CITY, MICHIGAN.

SAW-HANDLE.

SPECIFICATION forming part of Letters Patent No. 522,558, dated July 3, 1894.

Application filed June 6, 1893. Serial No. 476,753. (No model.)

To all whom it may concern:

Be it known that I, ELISHA J. FULGHUM, a citizen of the United States, residing at Traverse City, in the county of Grand Traverse and State of Michigan, have invented a new and useful Saw-Handle, of which the following is a specification.

My invention relates to improvements in handles for cross-cut saws, the objects in view being to provide means for attaching the handle without notching the back of the saw-blade; to provide means for bracing the handle to prevent vibration and loosening thereof; to provide improved means for securing the wooden portion of the handle to the metallic portion or coupling; and to provide improved means for adjusting the holding-iron to fit saws having blades of different widths.

Further objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claim.

In the drawings: Figure 1 is a perspective view of a handle embodying my invention, applied in the operative position to a saw-blade. Fig. 2 is a central sectional view of the handle, perpendicular to the plane of the blade.

Similar numerals of reference indicate corresponding parts in both figures of the drawings.

1 designates the wooden portion of the handle, which is provided with a central bore 2, to receive the axial bolt 3, which is headed at the upper end of the handle and extends at its lower end beyond the lower end of the handle.

4 represents a ferrule, having a peripheral flange 5 to fit around the extremity of the handle and having upon its upper side a conical boss 6, to fit in a correspondingly-shaped recess 7 in the end of the handle. The under side of the ferrule is rabbeted to form a shouldered seat 8, which is concentric with the bolt. The ferrule is held in place and clamped tightly against the end of the handle by means of a nut 9, which is threaded upon the bolt and bears upon the under side of the ferrule within the circumference of the shouldered seat.

10 represents a spacing cylinder which fits at its upper end in the shouldered seat of the

ferrule, and is provided at its lower end with a bell-shaped mouth 11, to bear upon the back of the saw-blade. The axial bolt terminates short of the lower edge of the said bell mouth.

12 represents a holding-iron, which is substantially U-shaped with a parallel-sided slot 13, of a width equal to that of the thickness of the saw-blade. The sides of the loop diverge toward their upper ends to form an enlarged space 14, to receive the axial bolt when the iron is adjusted for narrow saws, and said upper ends of the sides of the loop are connected by an integral nut 15, to engage the bolt.

16 represents the saw-blade.

From the above description it will be understood that the flared or bell-shaped mouth of the spacing cylinder forms a broad bearing for the handle upon the back of the saw-blade, whereby vibration of the handle with relation to the blade is prevented. A web 17, in the bore of the spacing cylinder, prevents the displacement of said cylinder when a saw-blade is loosened.

The sides of the enlarged portion 18 of the holding-iron fit snugly in the bore of the spacing cylinder and thus add to the rigidity of the parts when in their operative positions; and furthermore, the use of the additional clamping-nut by which the ferrule is secured in place adds to the stiffness of the axial bolt and enables the parts to be readily adjusted to compensate for shrinkage, &c.

From the foregoing description it will be seen that the necessity for notching the rear edge of the saw-blade is avoided by the use of the bell-shaped mouth.

Having described the invention, what I claim is—

A saw handle comprising a handle-portion 1, provided with a continuous axial bore and having at its lower end a conical recess 7 communicating with said bore, a ferrule 4 provided on its upper side with a conical boss 6 fitting in the recess 7, and a peripheral flange 5 embracing the lower end of the handle-portion, provided at its outer lower edge with an annular seat 8 and having a central bore registering with the bore of the handle-portion, a single continuous bolt extending through said registering bores, headed at its

upper end at the upper extremity of the handle-portion and having a lower threaded portion a clamping nut 9 engaging said threaded portion of the bolt and bearing against the under side of the ferrule and holding the latter firmly to place, said threaded portion of the bolt extending downward beyond the clamp nut, a bell-shaped spacing cylinder 10, fitted at its upper end in the seat 8 and provided below the plane of the nut 9 with an integral web 17 which is perforated to receive the threaded portion of the bolt, and a holding iron provided at its lower end with a contracted parallel-sided portion for the engagement of a saw-blade and provided with

an upper enlarged portion the oppositesides of which fit snugly in the spacing cylinder and terminate in an integral nut 15, which is threaded upon the bolt below the web 17 to prevent the detachment of the spacing cylinder when the handle is removed from a saw-blade, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ELISHA J. FULGHUM.

Witnesses:

STATIA BURDEN,
H. C. DAVIS.